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Sciences, University of Wolverhampton, Wulfuna Street,
Wolverhampton WV1 1SB (GB).

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(74) Agent: **HARRISON GODDARD FOOTE**; Belgrave
Hall, Belgrave Street, Leeds LS2 8DD (GB).

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(71) Applicant (for all designated States except US): **BRITISH
NUCLEAR FUELS PLC** [GB/GB]; Risley, Warrington,
Cheshire WA3 6AS (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LEE, Darren**,
Frank [GB/GB]; 3 Chiltern Close, West Derby, Liver-
pool L12 0NT (GB). **FRANKLIN, Keith, Campbell**
[GB/GB]; 17 Pyrton Mews, Cheltenham GL51 3RG (GB).
WILLIAMS, Craig, Denver [GB/GB]; Broken Stone
Barn, Woolston, Near Craven Arms, Shropshire SY7 8HS
(GB). **HAN, Xue, Song** [CN/GB]; School of Applied

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MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,
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ance Notes on Codes and Abbreviations" appearing at the begin-
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(54) Title: NOVEL ANION-EXCHANGE MATERIALS

(57) Abstract: The invention provides a microporous material which comprises a positively charged framework and has potential application as an anion exchange material, typically in the treatment of waste materials in effluent streams, for example in the nuclear power industry. The microporous material facilitates the removal of undesirable anion species from solutions. A preferred structure comprises a silicophosphate comprising tetrahedra of PO_4^{+} and SiO_4 , and the invention also provides a method for the synthesis of a silicophosphate using a two-phase system which includes an organic phase comprising an organosilicon compound and an aqueous phase comprising a phosphoric acid.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C01B B01J C02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 89 09749 A (MOBIL OIL CORP) 19 October 1989 (1989-10-19) page 2, line 20 -page 4, line 16	1,4,8,10
A	page 5, line 17 -page 6, line 12	2,3,5-7, 9,11
A	EP 1 142 833 A (DALIAN CHEMICAL PHYSICS INST) 10 October 2001 (2001-10-10) cited in the application claim 54 paragraphs '0013!-'0016! -/--	1-33

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Rhodes, K

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	NEERAJ ESWARAMOORTHY M ET AL: "Mesoporous silicophosphates" MATERIALS RESEARCH BULLETIN, ELSEVIER SCIENCE PUBLISHING, NEW YORK, US, vol. 33, no. 10, 1 October 1998 (1998-10-01), pages 1549-1554, XP004141813 ISSN: 0025-5408 the whole document ---	12-33
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INTERNATIONAL SEARCH REPORT

information on patent family members

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